

MULTIMEDIA



UNIVERSITY

STUDENT ID NO

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MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 3, 2016/2017

DAC5018 – COMPUTER APPLICATIONS
(All sections / Groups)

31 MAY 2017
9.00 a.m. – 11.00 a.m.
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of **SEVEN** pages. Please attempt **ALL** questions.
2. Answer **ALL** questions in **Section A** on the **OMR sheet**.
3. Answer **ALL** questions in **Section B** in the **Answer Booklet**.

Section A: Multiple Choices Questions (40 marks)

Instruction: Shade your answers on the OMR sheet.

1. Which of the following hardware processes data into information?
 - A. CPU
 - B. Keyboard
 - C. Hard Drive
 - D. Random Access Memory

2. _____ binary digits (or bits) combine to create two bytes.
 - A. 4
 - B. 8
 - C. 12
 - D. 16

3. Which component cannot be found on the desktop computer motherboard?
 - A. Memory
 - B. Basic Input Output System
 - C. Hard Disk
 - D. Expansion Bus

4. Ergonomic is _____.
 - A. a computer that is designed for use in an office environment.
 - B. a repeated motion that damage sensitive nerve tissue in the hands, wrist and arms.
 - C. the results of processing operations
 - D. a product that matches the best posture and functionality of the human body

5. A _____ speaker is a system of speakers and audio processing that envelops the listener in a 360-degree field of sound.
 - A. wireless
 - B. surround-sound
 - C. headphone
 - D. horn

6. A(n) _____ uses key words such as AND, OR and NOT.
 - A. boolean search
 - B. wildcard
 - C. exclusion operator
 - D. phrase search

7. Which of the following is **NOT** a component of Uniform Resource Locator?
 - A. Protocol
 - B. Domain Name
 - C. Path
 - D. Author

8. A _____ is a computer that receives and processes request and a _____ is a computer that asks for data.
 - A. client, server
 - B. plug-in, browser
 - C. server, client
 - D. browser, plug-in

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9. E-commerce is the buying and selling of goods and services, or the transmitting of funds or data, over a(n) _____ network, primarily the Internet.
A. Cable
B. Electronic
C. business
D. industries
10. Which of the following is **NOT** an example of Instant messaging services?
A. WhatsApp
B. Hangout
C. Telegram
D. LinkedIn
11. Which of the following is a general-purpose application?
A. Computer-aided design software
B. Hostel management software
C. Word processing program
D. Software to manage a bookstore
12. Which of the following is **NOT** an image file format?
A. MP3
B. PNG
C. JPEG
D. TIFF
13. The appropriate software to use for organisation, analysis and storage of data is _____ software.
A. spreadsheet
B. presentation
C. word processing
D. database
14. _____ authoring software allows even the novice to design interesting and interactive web pages without knowing any HTML code.
A. Web
B. Desktop
C. Productivity
D. Financial
15. Which of the following is an example of software suites?
A. Microsoft Office
B. Dreamweaver
C. Microsoft Outlook
D. Avira
16. Which of the following is **NOT** an example of operating system for personal computers?
A. Linux
B. Android
C. Mac OS X
D. Microsoft Windows
17. Interface in which you enter commands to communicate with the computer system is known as _____ interface.
A. menu-driven
B. graphical user
C. plug and play
D. command-driven

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18. In the boot process, how does the computer determine whether the hardware is working properly?
- A. Configuration of the system components are checked by the operating system.
 - B. The kernel is loaded once the system files are loaded into RAM.
 - C. The basic input/output system is activated by the CPU.
 - D. A process called the power-on self-test takes place.
19. Which of the following is **TRUE** about RAM and virtual memory?
- A. There is no capacity limit of RAM and virtual memory.
 - B. Process of optimizing RAM storage by borrowing cache memory.
 - C. Faster for the CPU to retrieve a piece of data from virtual memory than from RAM.
 - D. Increase the amount of RAM in your system so that it can avoid having to send data and instructions to virtual memory.
20. All of the following are the tasks performed by the operating system **EXCEPT**:
- A. Managing the hardware and peripheral devices.
 - B. Providing an interface for user to interact with computer.
 - C. Coordinating the flow of data and information through the computer system.
 - D. Performing housekeeping task such as file compression and disk defragmentation.
21. The following file-management actions are correct **EXCEPT**:
- A. You can find your deleted files from the hard drive until you permanently purge them from your system.
 - B. You can move a file from one location to another, using the Cut command.
 - C. You can copy a file to another location using the Copy command.
 - D. You can open a file by triple-clicking the file from its storage location.
22. The CPU is composed of two units, the _____ and the _____.
- A. Control Unit, Cache Memory
 - B. Video Card and Control Unit
 - C. Memory modules, Cache Memory
 - D. Control Unit, Arithmetic Logic Unit
23. Which is the correct series of steps in the machine cycle?
- A. Fetch – decode – execute – store
 - B. Decode – fetch – execute – store
 - C. Fetch – execute – store – decode
 - D. Store – execute – decode – fetch
24. Which of the following is **NOT** an example of optical drive storage device?
- A. Flash drive
 - B. Compact Disc
 - C. Digital Versatile Disc
 - D. Blu-ray

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25. Which of the following **BEST** describes hyperthreading?
- It enables a new set of instructions to start executing before the previous set has finished.
 - It enables the CPU to run at a faster speed than the manufacturer recommends.
 - It stores the result to RAM before fetching the next instruction.
 - It fetches the required piece of data or instruction from RAM.
26. Which of the following is **FALSE** about Solid State Drive?
- Runs with no noise.
 - Generates very little heat.
 - Requires very little power.
 - Contains mechanical motors and moving parts.
27. If your files are spread across many spots on the hard drive, making the hard drive run slowly, you should:
- Run Disk Cleanup utility.
 - Run Disk Defragmenter utility.
 - Check System Restore.
 - Run spyware and adware removal software.
28. VoIP is phone service that:
- works even when the electricity goes out.
 - has extremely high quality and is very reliable.
 - requires no special setup for a secure connection.
 - works over an Internet connection from anywhere that has Internet access.
29. Which of the following service describes the statement below?
- Allows you to send short text messages
 - Up to 160 characters
 - Convenient and quicker than e-mail
- SMS
 - Webe
 - MMS
 - Mi-Fi
30. Which of the following is **TRUE** about the feature of ultrabooks?
- Ultrabooks have very small screens
 - Ultrabooks do not offer optical drives
 - Ultrabooks do not offer solid state drives
 - Ultrabooks have very low processing power and memory
31. _____ is spread via e-mail attachments, often using address books.
- Encryption viruses
 - Worms
 - E-mail viruses
 - Logic bombs

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32. All of the following viruses can be classified by methods used to avoid detection **EXCEPT**:
- A. Polymorphic virus
 - B. Multipartite virus
 - C. Stealth viruses
 - D. Inheritance virus
33. _____ is a method of antivirus software to place the virus in a secured area.
- A. Removing
 - B. Scanning
 - C. Quarantining
 - D. Inoculating
34. A(n) _____ virus changes its own code to avoid detection.
- A. stealth
 - B. polymorphic
 - C. inheritance
 - D. multipartite
35. The following are the examples of antivirus program **EXCEPT**:
- A. Adobe
 - B. Norton
 - C. Kaspersky
 - D. AVG
36. Which of the following is **NOT** a type of hacker?
- A. White-hat
 - B. Black-hat
 - C. Grey-hat
 - D. Red-Hat
37. What is the software or hardware that is designed to protect computers from hackers?
- A. Firewalls
 - B. Anti-spyware
 - C. Antivirus
 - D. Scan disk
38. Which of the following is the **CORRECT** behaviour of Denial-of-Service attacks?
- A. Repeatedly making requests from the server through a zombie computer that the hacker has taken.
 - B. Updating antivirus software and the operating system to ensure the antivirus database contains the latest security patches.
 - C. Appears to be something useful or desirable, but does something malicious in the background without your knowledge.
 - D. Cybercriminal is any criminal action perpetrated primarily through the use of a computer.
39. A(n) _____ is a device that reads a unique personal characteristic such as a fingerprint or the iris pattern in your eye and converts it to a digital code.
- A. scanner
 - B. stylus
 - C. printer
 - D. biometric authentication device

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40. Which of the following is **NOT** a characteristic of scareware?
- A. Type of malware.
 - B. One of social engineering techniques.
 - C. One type of antivirus software.
 - D. Antivirus tool that provides little or no value.

Section B: 3 Structured Questions (60 marks)

Instruction: Write your answers in the Answer Booklet provided.

Question 1: [Total: 20 Marks]

- a) List **FOUR** types of permanent storage device. Give an example for each type. [4 marks]
- b) Susan is an engineer working in KPT Construction consultancy. Her job requires her to be on offsite or outstation. She wants to purchase a new device to assist her during her offsite/outstation work. Susan has yet to choose either a laptop or a tablet for preparing reports and viewing blueprint diagrams.
- i. List **TWO** disadvantages of using a laptop and tablet. [4 marks]
 - ii. As an IT executive, which device would you suggest for Susan to purchase? Explain **THREE** advantages of the suggested device which Susan can benefit from. [6 marks]
- c) Differentiate between pre-installed software and installed software. Give **TWO** examples of preinstalled software and installed software found in an Android mobile phone. [6 marks]

Question 2: [Total: 20 Marks]

- a) Discuss **THREE** types of system maintenance utilities. [6 marks]
- b) You will pay more for computer with an Intel i7 than the one with an Intel i5 because of its increased processing power. Briefly explain **THREE** factors that determine a CPU's processing power. [6 marks]

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- c) Explain **ONE** advantage and **THREE** disadvantages of VoIP technology. [4 marks]
- d) State **FOUR** similarities between smartphones and tablets. [4 marks]

Question 3: [Total: 20 Marks]

- a) Virus is a computer risk. Define computer virus. [2 marks]
- b) Explain any **FIVE** categories of computer viruses and the transmission methods. [10 marks]
- c) State **FOUR** options to back up your files. [4 marks]
- d) Creating a strong password lowers overall risk of a security breach. Suggest **FOUR** criteria for creating strong passwords. [4 marks]
- e) Distinguish between boot-sector viruses and worms. [2 marks]